PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTHORIT To: Blake Dawson Waldron Level 39 101 Collins Street MELBOURNE VIC 3000	Y	INTERNATIO	PCT TEN OPINION OF THE NAL SEARCHING AUTHORITY (PCT Rule 43bis.1) 3 0 MAY 2005	
Applicant's or agent's file reference WJP DAAS0313815085			See paragraph 2 below	
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/AU2005/000453	31 March 2005		31 March 2004	
International Patent Classification (IPC) or	both national classifica	tion and IPC		
Int. Cl. 7 C07D 311/92; A61K 31/35	52; A61P 31/20			
Applicant MONASH UNIVERSITY et al				
1. This opinion contains indications rela	ting to the following ite	ems:	·	
Box No. I Basis of the opinio				
Box No. II Priority				
interview of the state of the s				
Box No. IV Lack of unity of invention X Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents	cuments cited			
Box No. VII Certain defects in	the international applicati	al application		
Box No. VIII Certain observations on the international application				
2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Scarching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the IPBA/AU		Authorized Officer		
AUSTRALIAN PATENT OFFICE			•	
PO BOX 200, WODEN ACT 2606, AUSTRALIA		R.L. POOLEY		
E-mail address: pct@ipaustralia.gov.au		Telephone No. (02) 6283 2242		

International application No.

Во	x No. I Basis of the opinion					
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
	a. type of material					
	a sequence listing					
	table(s) related to the sequence listing					
	b. format of material					
	in written format					
	in computer readable form					
	c. time of filing/furnishing					
	contained in the international application as filed.					
	filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.					
3.	3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
4.	Additional comments:					

International application No.

PCT/AU2005/000453

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement		
Novelty (N)	Claims 1-6, 9-11	· YES
	Claims 7, 8, 12	NO
Inventive step (IS)	Claims 1-6, 9-11	YES
	Claims 7, 8, 12	NO
Industrial applicability (IA)	Claims 1-12	YES
•	Claims	NO

2. Citations and explanations:

The following documents were cited in the International Search Report:

- D1 WO 1995/029920 A
- D2 Chemical Abstracts Online Accession No. 87:167020
- D3 Chemical Abstracts Online Accession No. 83:163943

NOVELTY (N) and INVENTIVE STEP (IS) Claims 7, 8, 12

Document D1 discloses suksdorfin compounds at page 12 that overlap with the compounds of present claims 7 and 8 when present substituent R₄ is OH or OR₉. Document D1 also discloses pharmaceutical compositions that include these compounds. Accordingly claims 7, 8 and 12 lack novelty and inventive step in light of document D1. Note however that the overlap between the present compounds and those of document D1 would be removed if the reference to R in the proviso of claim 7 was changed to R₄, as at page 3 line 10 of the present specification.

Documents D2 and D3 disclose compounds wherein a methyl group is present at the location of present substituent X. As the definition of X does not include a methyl group claims 1-12 are novel and inventive over the disclosures of documents D2 and D3.

The above documents do not disclose the methods of claims 1-6, and the compounds of claims 9-11. Accordingly these claims are novel and inventive over the disclosures of documents D1, D2 and D3.

INDUSTRIAL APPLICABILITY (IA)

Claims 1-12 meet the requirements of industrial applicability.

International application No.

		TC1/A02003/000433		
Box No. VIII	Certain observations on the international application	•		
The following of supported by the	bservations on the clarity of the claims, description, and drawings or on the quest description, are made:	tion whether the claims are fully		
Claim 7 is unclear because it does not include a definition of the substituents R_6 and R_7 which are present in Formula 1 at the top of page 56. Additionally, the reference to the substituent R in the proviso at page 56 line 18 appears to be incorrect and is inconsistent with the description at page 3 line 10 where R_4 is OH.				
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PATENT COOPERATION TREATY

From the:			REC'D 0 5 JUN 2005	
INTERNATIONAL SEARCHING AUTHORITY			WIPO PCT	
То:			PET	
Blake Dawson Waldron Level 39	1		- CONTROL OF THE	
101 Collins Street	·	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
MELBOURNE VIC 3000	•	INTERMITIONAL SELECTION		
· ·		(PCT Rule 43bis.1)		
		Date of mailing 7.0 MAY 2005		
		(day/month/year) 3 0 MAY 2005 FOR FURTHER ACTION		
Applicant's or agent's file reference WJP DAAS0313815085		See paragraph 2 below		
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)	
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Int. Cl. 7 C07D 311/92; A61K 31/35	52; A61P 31/20			
Applicant				
MONASH UNIVERSITY et al	,			
This opinion contains indications rela	ting to the following it	ems:		
	X Box No. I Basis of the opinion			
Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Language 42 kis 162/3 with regard to povelty, inventive step or industrial applicability;			inventive step or industrial applicability;	
Box No. V Reasoned statement under Rule 43013.1(a)(i) with regard to novely, inventor citations and explanations supporting such statement				
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1 1 1	n defects in the international application			
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Authorized Officer				
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE				
PO BOX 200, WODEN ACT 2606, AUSTRALIA		R.L. POOLEY		
B-mail address: pct@ipaustralia.gov.au Telephor Facsimile No. (02) 6285 3929			2) 6283 2242	

International application No.

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	a. type of material					
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	Additional comments:					
4.	Additional comments:					
1						

International application No.

PCT/AU2005/000453

appiicability; citations	and explanations supporting such statemen	······································	
Statement			
Novelty (N)	Claims 1-6, 9-11	•	YES
	Claims 7, 8, 12		NO .
Inventive step (IS)	Claims 1-6, 9-11		YES
	Claims 7, 8, 12		NO
Industrial applicability (IA)	Claims 1-12		YES
•	. Claims	•	NO

2. Citations and explanations:

The following documents were cited in the International Search Report:

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NOVELTY (N) and INVENTIVE STEP (IS) Claims 7, 8, 12

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Documents D2 and D3 disclose compounds wherein a methyl group is present at the location of present substituent X. As the definition of X does not include a methyl group claims 1-12 are novel and inventive over the disclosures of documents D2 and D3.

The above documents do not disclose the methods of claims 1-6, and the compounds of claims 9-11. Accordingly these claims are novel and inventive over the disclosures of documents D1, D2 and D3.

INDUSTRIAL APPLICABILITY (IA)

Claims 1-12 meet the requirements of industrial applicability.

International application No.

Box No. VIII	Certain observations on the international application		
The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:			
Claim 7 is unclear because it does not include a definition of the substituents R ₆ and R ₇ which are present in Formula 1 at the top of page 56. Additionally, the reference to the substituent R in the proviso at page 56 line 18 appears to be incorrect and is inconsistent with the description at page 3 line 10 where R ₄ is OH.			
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